

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049875 A1

(51) International Patent Classification⁷: C22B 21/06, 9/00

(21) International Application Number:
PCT/EP2004/012836

(22) International Filing Date:
10 November 2004 (10.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03078689.1 19 November 2003 (19.11.2003) EP

(71) Applicant (for all designated States except US): CORUS TECHNOLOGY BV [NL/NL]; P.O. Box 10000, NL-1970 CA IJmuiden (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DE VRIES, Paul, Alexander [NL/NL]; Frans Lehárlaan 133, NL-2102

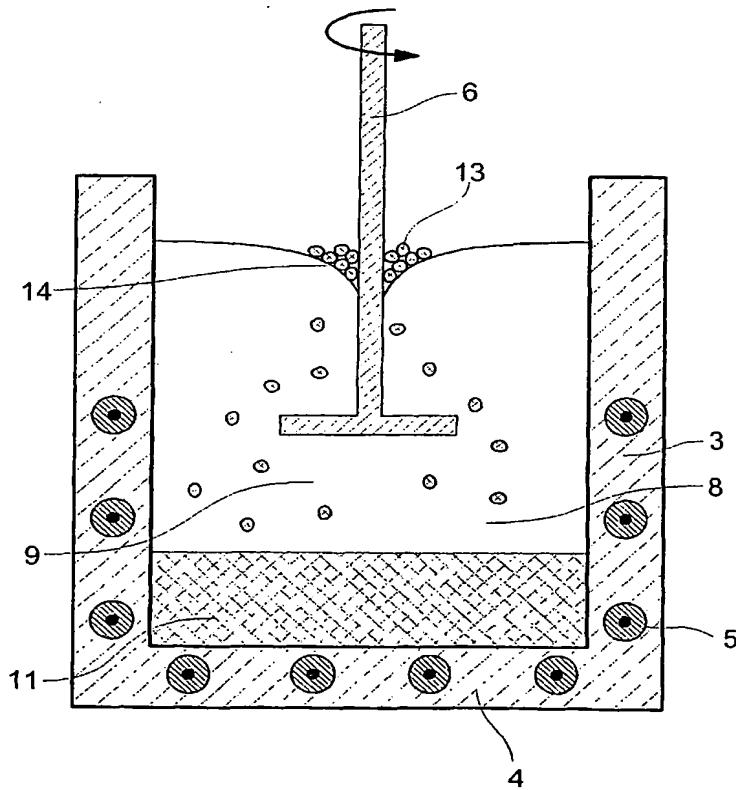
GM Heemstede (NL). WOUTERS, Huijbrecht, Adriaan [NL/NL]; Beekforel 26, NL-2318 MB Leiden (NL). RUTTEN, Martinus, Leonardus [NL/NL]; Westerschouwenhof 11, NL-6845 CA Arnhem (NL). AURICH, Volker, Gerhard [DE/NL]; Van Wassenaerweg 7, NL-6862 ZC Oosterbeek (NL). TEN HAVE, Johannes, Hendrikus [NL/NL]; Waterwolf 16, NL-6681 TJ Bemmel (NL).

(74) Agent: KRUIT, Jan; Corus Technolgy BV, P.O. Box 10000, NL-1970 CA IJmuiden (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: METHOD OF COOLING MOLTEN METAL DURING FRACTIONAL CRYSTALLISATION



(57) Abstract: Method of cooling an at most partially solidified molten metal during fractional crystallisation wherein metal crystals formed have a purer composition than that of the molten metal characterised in that salt in solid form is used to cool the at most partially solidified molten metal.

WO 2005/049875 A1



- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*